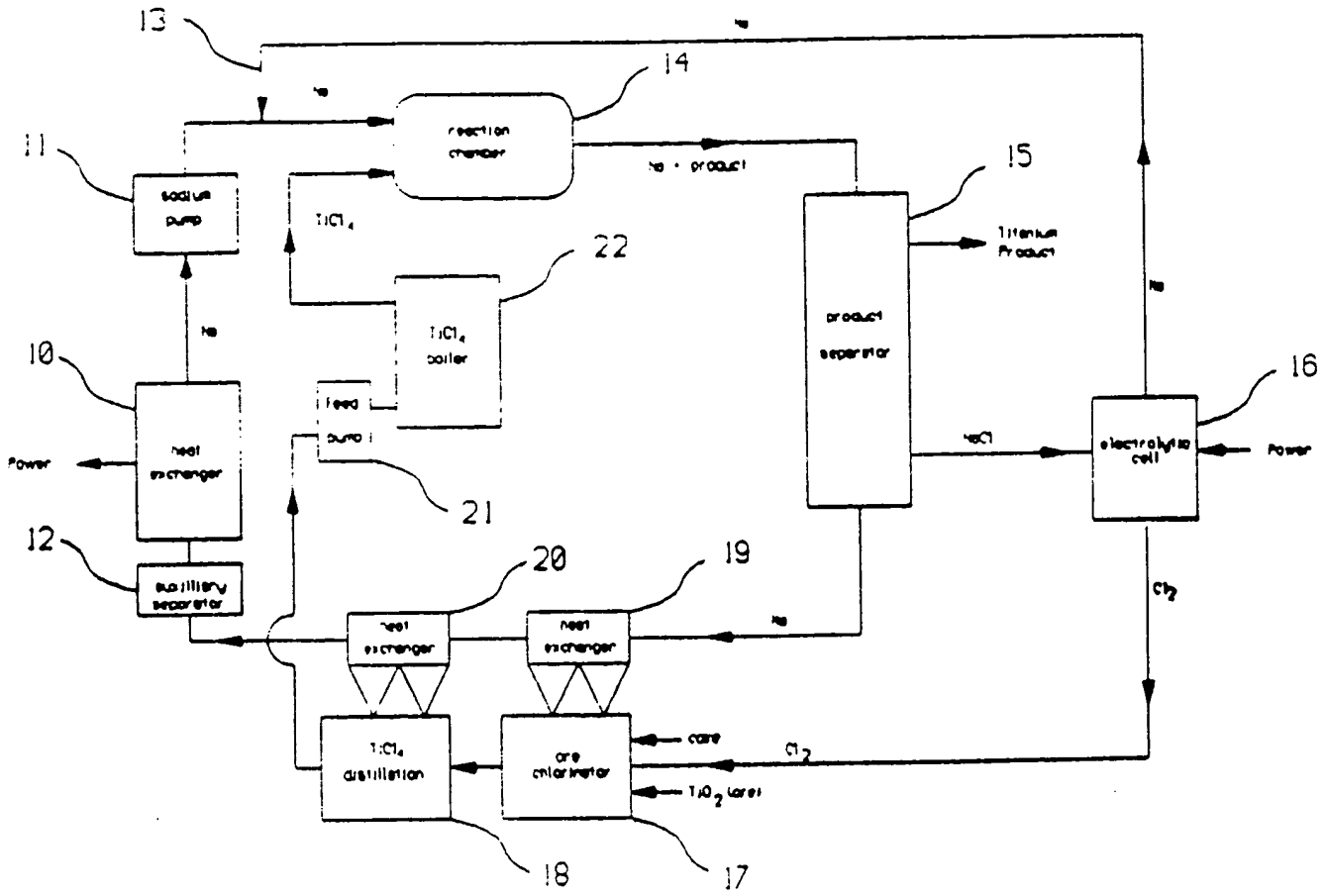
13
14
11
reaction chamber
sodium pump
15
product separator
Titanium Product
22
10
heat exchanger
Power
feed pump
21
16
electrolytic cell
Power
12
auxiliary separator
20
19
heat exchanger
heat exchanger
ore chlorinator
coke
18
17

Figure 1.

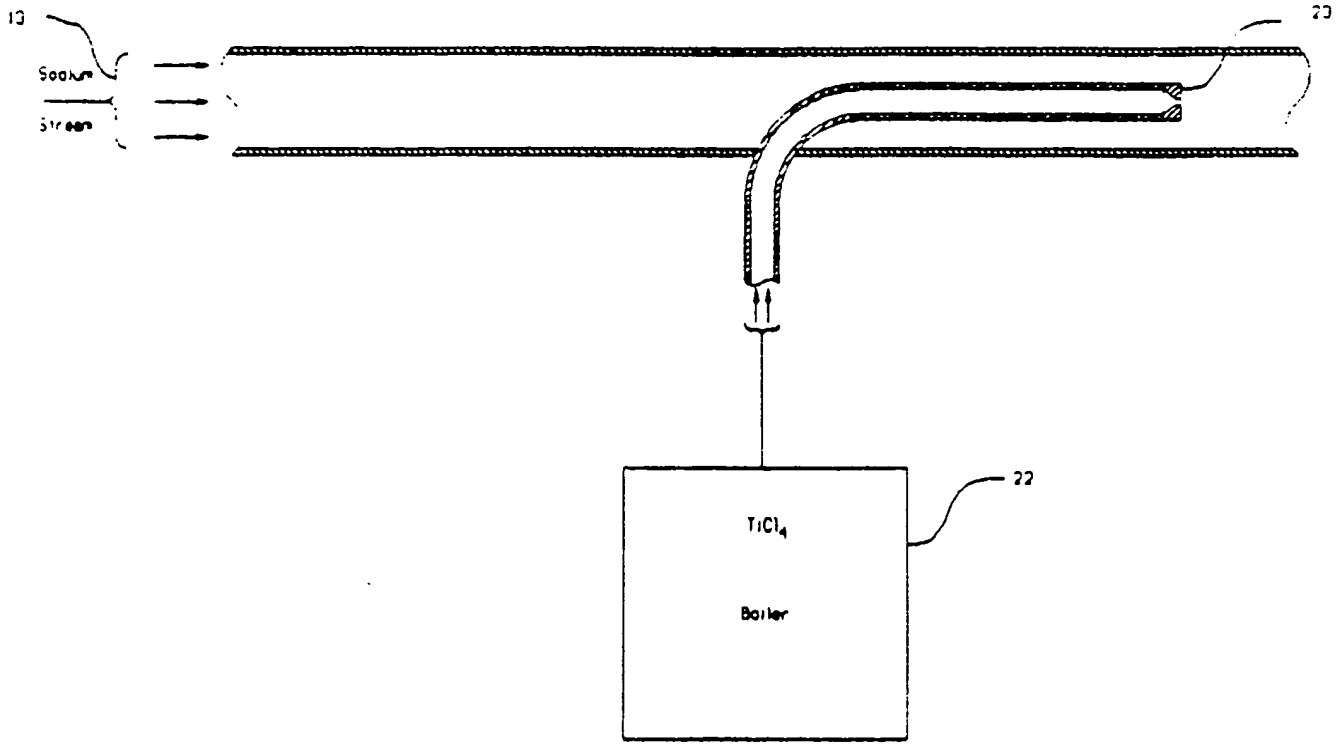

Figure 2.

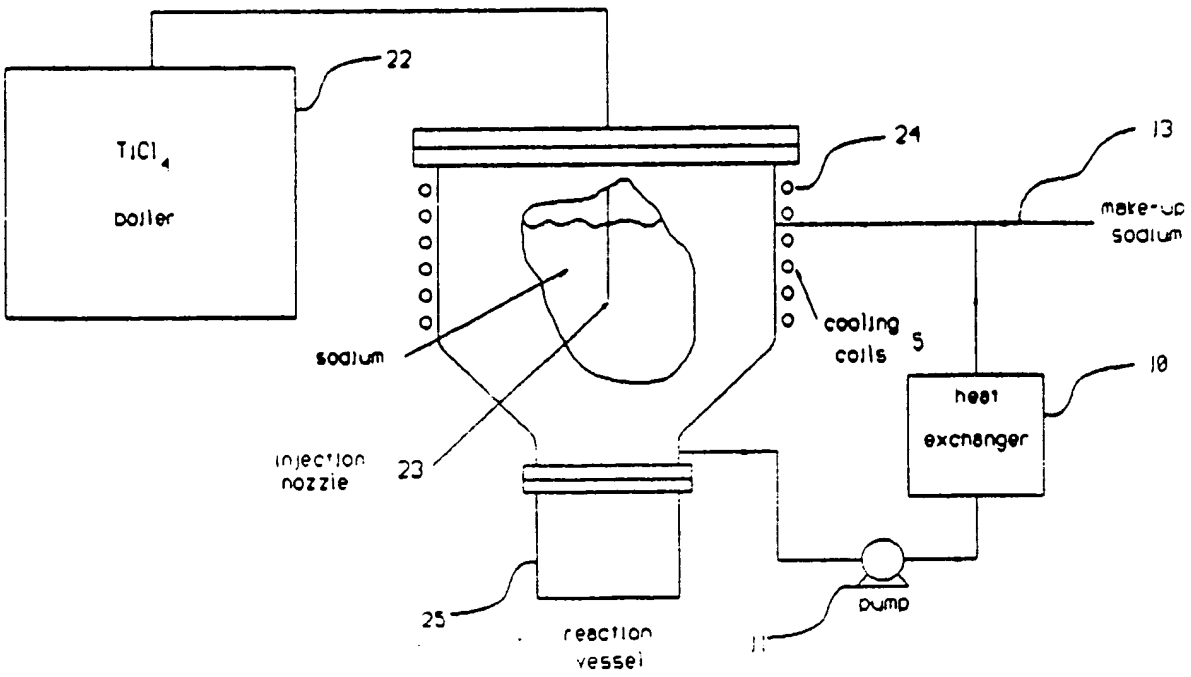
22
$TiCl_4$
boiler
24
13
make-up
sodium
cooling
coils
5
sodium
10
heat
exchanger
injection
nozzle
23
25
reaction
vessel
pump
11

Figure 3.

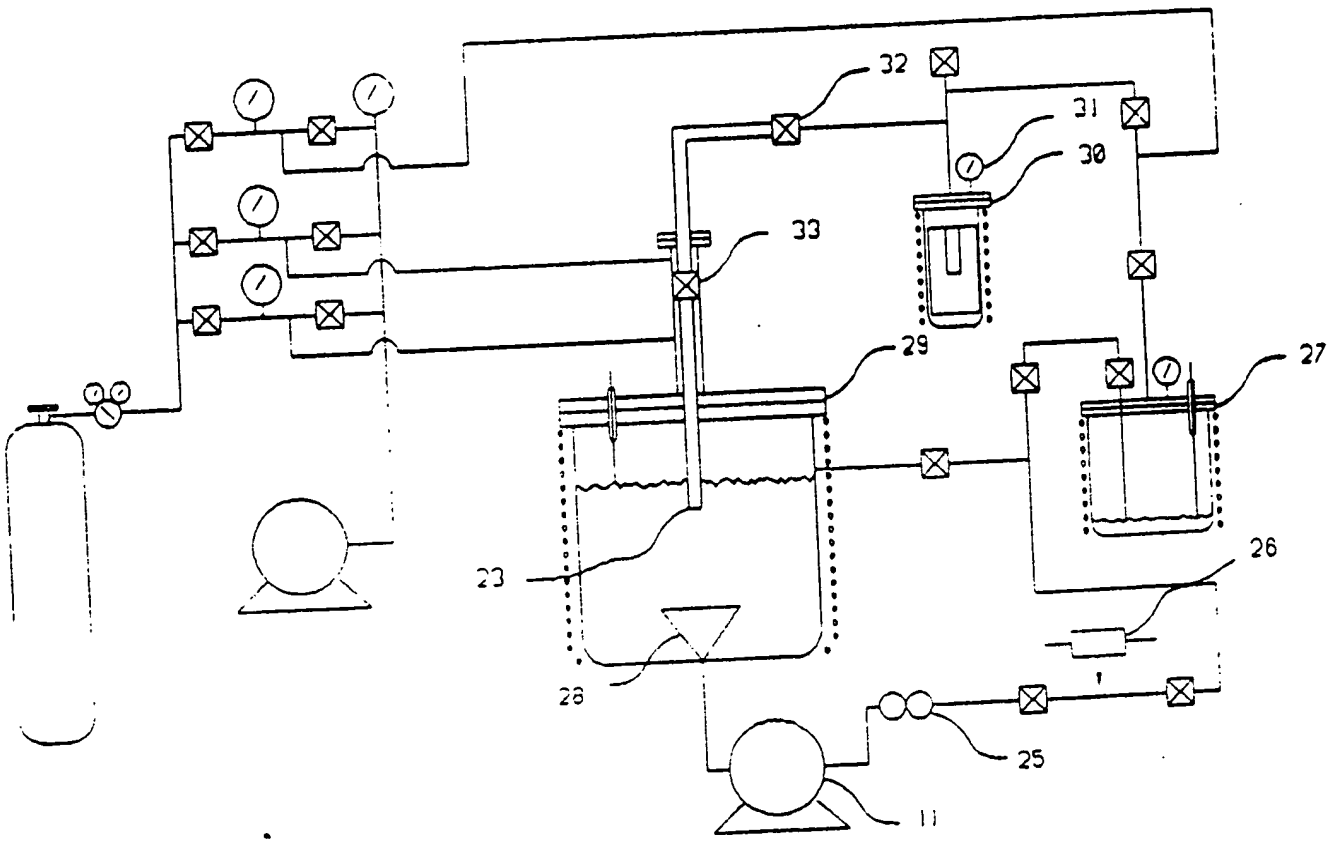

Figure 4